

PATENT ABSTRACTS OF JAPAN

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(21) Application number: 10167065

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(54) HOLLOW FIBER MEMBRANE TYPE FILTER MEMBRANE MODULE

(57) Abstract:

PROBLEM TO BE SOLVED: To surely remove foreign matter including pathogenic protozoa, etc., in spite permeated water outlet nozzle 6. of the rupture of hollow fiber membranes by building COPYRIGHT: (C)2000, JPC a filter member consisting of a filter material having the pore diameter larger than the pore diameter of the hollow fiber membranes into a membrane permeation side to filter the permeated liquid of the hollow fiber membranes.

SOLUTION: Hollow fiber membranes 2 bundled to a U shape are inserted into an outer cylinder 1 of a membrane module and a bundle of the hollow fiber membranes 2 is adhered and fixed by a potting material 3 at the end of the outer cylinder 1. A filter member 5 consisting of the filter material having the pore diameter larger than the pore diameter of the hollow fiber membranes 2 is built into the outer cylinder by bringing the same into contact with aperture end faces 4 of the hollow fiber membranes 2. A module cap 8 for collecting the filtrate is them mounted at the end faces. The raw water contg. pollutants from raw water supply nozzles 10A and 10B is introduced into a membrane

module and is permeated through the membranes from the outer side to the inner side of the hollow fiber membranes 2. The membrane filtrate is passed to the filter member 5 and is taken out to the outside of the membrane module from a

TORAY IND INC

(71) Applicant:

